

Position Description

Position Title: Process Engineering Manager

Reports To: Executive VP Operations

Position Description: ION Engineering is seeking a “hands-on” process engineer with strong proficiency in amine-based separation technologies in natural gas production, CO₂ capture or other related applications to join our team. ION is commercializing proprietary new technology combining amines with ionic liquids for these applications, which is expected to offer significant advantages over traditional aqueous amine processes. The successful candidate will be proficient in all aspects of process design, including conceptual design; process simulation; PFD and P&ID development; equipment design, specification and selection; bid preparation, PHA/HAZOP review, operator training, plant start-up, troubleshooting and performance testing required. As a member of a small and entrepreneurial team, this individual will also participate in proposal preparation, project development, project execution, collaboration with external partners and engineering firms and engineering oversight of sub-contractors.

Duties & Responsibilities:

- Works closely with internal and external resources to design, build and test ION’s process technology, ensuring process systems are designed and engineered to meet industry requirements in a technically efficient and commercially viable manner.
- Has a clear understanding of the R&D process and how to move research projects into commercialization.
- Responsible for the design and construction of lab and field-based demonstration units and the subsequent operation of tests to validate ION’s process technology.
- Ensures process systems are designed and engineered to meet industry requirements in a technically efficient and commercially viable manner.
- Responsible for the HAZOP, safety and environmental standards for the organization.
- Provides engineering calculations for complete heat and material balances, system equipment sizing, PFD and P&ID development.
- Coordinate vendor inquiry preparation, vendor bid analysis and vendor selection.
- Leads or supports technical analysis related to preparation of commercial proposals, project plans and analytical reports.
- Coordinates and supervises all technical training as required within the company.

Skills/Requirements:

- Must be able to work in a small entrepreneurial team environment.
- Must be highly motivated and possess a willingness to expand personal skills and/or knowledge base.
- Proficiency with process simulation software such as Aspen Plus, Hysys, Pro Treat, with experience in natural gas treating applications desirable.
- Must be able to work under pressure.
- Excellent oral and written communication skills in English with additional language skills a plus.
- Capable of performing tasks with minimal guidance or supervision.
- Overnight travel may occasionally be required.

Preferred Education/Experience:

- B.S. degree from a four-year college or university a minimum requirement, preferably in Chemical Engineering or related field with a Masters or other advanced degree a decided preference .
- Minimum of ten years engineering and design experience preferably in natural gas treating equipment and facility design with a specialization in amine-based acid gas removal (MEA, DEA, DGA, MDEA, formulated amines) or other related other area.
- Other experience in carbon capture technologies for utilities, refineries or other industries a plus.

Interested parties:

Please send your resume and a letter of interest to tech-employment@ion-engineering.com. Be sure to indicate in the subject line which position for which you are applying.